

What we claim is:

1. A printing method with a printer connected to a host device, comprising:

receiving first print setting information sent from said host device;

requesting print object data to said host device pursuant to said first print setting information;

receiving print object data sent from said host device in reply to said request; and

printing said print object data based on said first print setting information.

2. A printing method according to claim 1, further comprising:

receiving inquiry information regarding the print setting sent from said host device;

sending reply information to said host device based on the characteristic information of said printer in reply to said received inquiry information; and

receiving first print setting information sent from said host device in response to said reply information.

3. A printing method according to claim 1, further comprising:

preparing second print setting information based on the characteristic information of the first print setting

information sent from said host device; and  
printing the print object data sent from said host device  
based on said first print setting information and/or second print  
setting information.

4. A printing method according to claim 1, further  
comprising:

when said first print setting information designates  
printing based on a plurality of print object data, respectively  
requesting said plurality of print object data.

5. A printing method according to claim 4, further  
comprising:

specifying print object data in a prescribed order based  
on said first print setting information; and  
requesting said specified print object data.

6. A printing method according to claim 1, further  
comprising:

dividing a prescribed print area of a print recording  
medium into prescribed partial areas when said received first  
print setting information is designating automatic arrangement  
of print object data; and

requesting print object data to be arranged within said  
divided prescribed partial areas to said host device based on  
said first print setting information.

7. A printing method according to claim 6, further comprising:

dividing said prescribed print area into said prescribed partial areas made from said prescribed number of divisions in accordance with the value relating to a prescribed number of divisions designated by said first print setting information.

8. A printing method according to claim 6, further comprising:

determining the arrangement area of the print object data to be arranged within said prescribed partial areas in accordance with the margin value designated by said first print setting information.

9. A printing method according to claim 6, further comprising:

generating a prescribed band area worth of bit map data based on said print object data sent from said host device.

10. A printing method according to claim 6, further comprising:

respectively requesting a plurality of print object data to be arranged in said partial areas belonging to a prescribed band area in said prescribed print area.

11. A printing method according to claim 1, further comprising:

requesting specific print object data to said host device based on issued management information.

12. A printing method according to claim 11, further comprising:

receiving an issuance request of management information sent from said host device; and

issuing said management information in accordance with the self-condition in response to said received issuance request.

13. A printing method according to claim 12, further comprising:

issuing new management information when the processing related to the printing of print object data sent from said host device is completed.

14. A printing method according to claim 11, further comprising:

releasing the management information of said completed print object data when the processing relating to the printing of said print object data is completed; and

sending said released management information to said host device.

15. A printing method according to claim 1, further comprising:

requesting said print object data to said host device upon receiving information relating to the termination of the print setting sent from said host device.

16. A printing method according to claim 1, further comprising:

suspending printing upon receiving print suspension information from said host device while printing said print object data.

17. A printing method according to claim 16, further comprising:

sending information relating to the termination of print processing to said host device upon suspending said printing.

18. A printer connected to a host device, comprising:

processing means for interpreting command data sent from said host device and performing prescribed processing in accordance with said interpretation result;

storage means for storing bit map data; and

*Image memory* printing means for executing printing to a print recording engine medium based on bit map data stored in said storage means;

wherein said processing means includes:

request means for requesting to said host device print object data designated by first print setting information based on command data relating to the print setting; and

*KIP* generation means for generating bit map data based on print

object data obtained from command data relating to data transmission based on said first print setting information, and storing said bit map data in said storage means.

19. A printer according to claim 18, wherein said processing means sends to said host device reply information based on its characteristic information in response to command data relating to a print setting inquiry; and receives command data relating to the print setting sent from said host device in response to said reply information.

20. A printer according to claim 18, wherein said processing means prepares second print setting information based on its characteristic information of said first print setting information; and generates bit map data of said print object based on said first print setting information and/or said second print setting information.

21. A printer according to claim 18, wherein when said first print setting information designates printing based on a plurality of print object data, said processing means respectively requests said plurality of print object data.

22. A printer according to claim 21, wherein said processing means specifies print object data in a prescribed order based on said first print setting information and requests said specified print object data.

23. A printer according to claim 18, wherein said processing means divides a prescribed print area of a print recording medium into prescribed partial areas when said received first print setting information is designating automatic arrangement of print object data; and requests print object data to be arranged within said divided prescribed partial areas to said host device based on said first print setting information.

24. A printer according to claim 23, wherein said processing means divides said prescribed print area into said prescribed partial areas made from said prescribed number of divisions in accordance with the value relating to a prescribed number of divisions designated by said first print setting information.

25. A printer according to claim 23, wherein said processing means determines the arrangement area of the print object data to be arranged within said prescribed partial areas in accordance with the margin value designated by said first print setting information.

26. A printer according to claim 23, wherein said processing means generates a prescribed band area worth of bit map data based on said print object data sent from said host device.

27. A printer according to claim 23, wherein said processing means respectively requests a plurality of print object data

to be arranged in said partial areas belonging to a prescribed band area in said prescribed print area.

28. A printer according to claim 18, wherein said processing means requests specific print object data to said host device based on issued management information.

29. A printer according to claim 28, wherein said processing means issues said management information in accordance with the self-condition in response to a command request relating to the issuance request of management information.

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30. A printer according to claim 30, wherein said processing means issues new management information when the processing related to the printing of print object data is completed.

31. A printer according to claim 28, wherein said processing means releases the management information of said completed print object data when the processing relating to the printing of said print object data is completed; and sends said released management information to said host device.

32. A printer according to claim 18, wherein said processing means requests said print object data to said host device upon receiving information relating to the termination of the print setting.

33. A printer according to claim 18, wherein said processing means suspends printing upon receiving print suspension information from said host device while printing said print object data.

34. A printer according to claim 33, wherein said processing means sends information relating to the termination of print processing to said host device upon controlling the suspension of said printing.

35. A printer connected to a host device, comprising:  
first storage means storing its characteristic information;  
second storage means for storing print setting information;  
reception means for receiving first print setting information sent from said host device; and  
setting means for converting the first print setting information received by said reception means into second print setting information based on the characteristic information stored in said first storage means;  
wherein said printer prints the print object data sent from said host device based on the second print setting information stored in said second storage means.

36. A program for controlling the printer connected a host device, comprising:

a processing function for interpreting command data sent from said host device and performing prescribed processing in accordance with the interpretation results,

wherein said processing function further comprises:

a request function for requesting to said host device the print object data designated by print setting information based on command data relating to the print setting; and

a generation function for generating print object data obtainable based on command data relating to data transmission and bit map data based on said print setting information, and storing these data in a prescribed memory.

37. A printing method of object data in a host device with a printer, wherein said host device sends first print setting information to a printer, and said print object data is sent to said printer in accordance with print object data request sent from said printer based on said first print setting information.

38. A printing method according to claim 37, comprising:

obtaining characteristic information of a printer necessary for printing with a specific printer from said specific printer;

preparing first print setting information based on said obtained characteristic information; and

sending said prepared print setting information to said specific printer.

39. A program for making a printer print the print object data in a host device, comprising a processing function for outputting prescribed command data to said printer and receiving prescribed command data from said printer, interpreting said received prescribed command data, and performing prescribed processing in accordance with the interpretation results,

wherein said processing function further comprises:

a setting request function for outputting command data relating to the print setting; and

data output means for reading said print object data from a prescribed storage device based on command data relating to the data request sent from said printer, and outputting command data relating to data transmission based on said print object data.

40. A communication method for printing between a host device and printer,

wherein said host device sends first print setting information to said printer;

said printer receives first print setting information sent from said host device and requests to said host device the print object data designated with said first print setting information;

said host device sends said print object data to said printer in accordance with said request sent from said printer; and

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said printer receives print object data sent from said host device, and conducts printing based on said print setting information and said print object data.